1. Solve the equation below. Then, choose the interval that contains the solution.

$$-17(-12x + 3) = -18(7x - 14)$$

A. $x \in [-1.29, -0.35]$

B. $x \in [0.2, 0.65]$

C. $x \in [-3.56, -1.75]$

D. $x \in [0.83, 1.17]$

E. There are no real solutions.

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2. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $3x - 4y = 12$ and passing through the point $(6, 9)$.

A. $m \in [0.67, 1.16]$ $b \in [4.47, 5.43]$

B. $m \in [1.31, 1.56]$ $b \in [4.47, 5.43]$

C. $m \in [-0.91, -0.16]$ $b \in [12.68, 13.77]$

D. $m \in [0.67, 1.16]$ $b \in [-5.48, -3.1]$

E. $m \in [0.67, 1.16]$ $b \in [2.96, 3.8]$

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3. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Perpendicular to $6x - 7y = 7$ and passing through the point $(-6, -8)$.

A. $m \in [-0.99, -0.1]$ $b \in [-15.17, -14.25]$

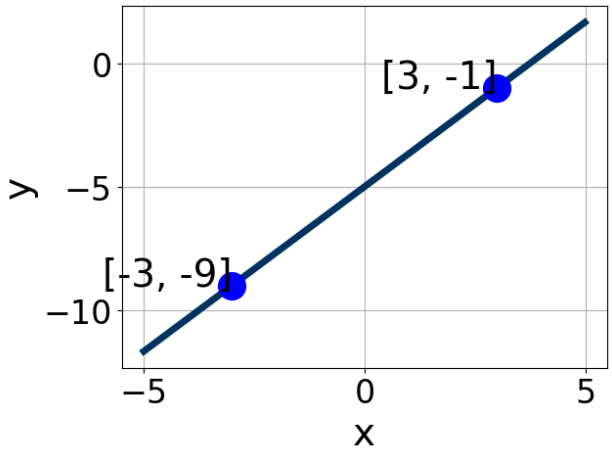
B. $m \in [-1.91, -1.14]$ $b \in [-15.17, -14.25]$

C. $m \in [-1.91, -1.14]$ $b \in [-4.17, -1.8]$

D. $m \in [0.93, 1.7]$ $b \in [-1.39, -0.24]$

E. $m \in [-1.91, -1.14]$ $b \in [14.93, 15.47]$

4. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-2.9, -0.3]$, $B \in [0.01, 1.56]$, and $C \in [-6, -2]$

B. $A \in [-7, -1.8]$, $B \in [2.87, 3.77]$, and $C \in [-16, -6]$

C. $A \in [0, 4.8]$, $B \in [2.87, 3.77]$, and $C \in [-16, -6]$

D. $A \in [0, 4.8]$, $B \in [-3.02, -2.9]$, and $C \in [10, 20]$

E. $A \in [-2.9, -0.3]$, $B \in [-1.54, -0.99]$, and $C \in [4, 11]$

5. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-8x + 7}{4} - \frac{-5x + 3}{7} = \frac{-6x - 5}{8}$$

A. $x \in [-0.65, 0.35]$

B. $x \in [14.8, 21.8]$

C. $x \in [3.63, 4.63]$

D. $x \in [4.23, 6.23]$

E. There are no real solutions.

6. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(9, 5) \text{ and } (-11, -8)$$

A. $m \in [-0.1, 2.1]$ $b \in [0.2, 0.9]$

B. $m \in [-0.1, 2.1]$ $b \in [1, 5.7]$

C. $m \in [-1.4, 0.2]$ $b \in [-17.6, -13.7]$

D. $m \in [-0.1, 2.1]$ $b \in [-1.3, 0.7]$

E. $m \in [-0.1, 2.1]$ $b \in [-4.3, -2.4]$

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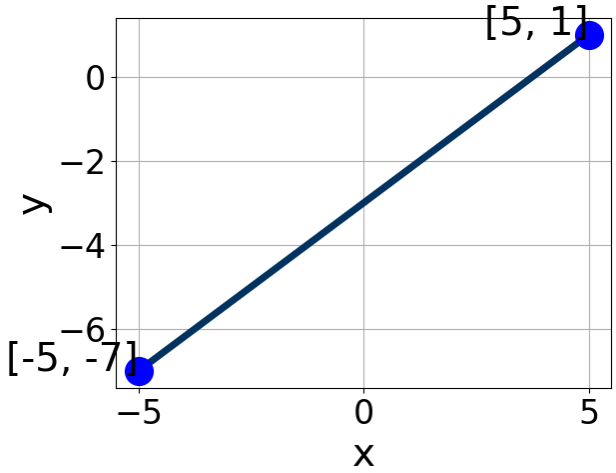
7. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [3.8, 4.4]$, $B \in [2.3, 8.6]$, and $C \in [-16, -8]$

B. $A \in [-3, 0.6]$, $B \in [-1.8, -0.4]$, and $C \in [1, 4]$

C. $A \in [-3, 0.6]$, $B \in [-0.4, 2.2]$, and $C \in [-6, -1]$

D. $A \in [-5.7, -3.3]$, $B \in [2.3, 8.6]$, and $C \in [-16, -8]$

E. $A \in [3.8, 4.4]$, $B \in [-5.3, -3.5]$, and $C \in [13, 20]$

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8. Solve the equation below. Then, choose the interval that contains the solution.

$$-10(8x+5) = -14(7x+9)$$

A. $x \in [-5.22, -2.22]$

B. $x \in [5.78, 10.78]$

C. $x \in [-0.99, 3.01]$

D. $x \in [-9.78, -6.78]$

E. There are no real solutions.

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9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(11, 4) \text{ and } (7, -11)$$

A. $m \in [3.75, 8.75]$ $b \in [-42.25, -33.25]$

B. $m \in [-8.75, -1.75]$ $b \in [7.25, 21.25]$

C. $m \in [3.75, 8.75]$ $b \in [-12, 0]$

D. $m \in [3.75, 8.75]$ $b \in [33.25, 42.25]$

E. $m \in [3.75, 8.75]$ $b \in [-23, -16]$

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10. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{4x-9}{7} - \frac{7x-9}{4} = \frac{-4x-5}{6}$$

A. $x \in [-8.28, -2.28]$

B. $x \in [1.51, 5.51]$

C. $x \in [-3.8, -0.8]$

D. $x \in [8.77, 10.77]$

E. There are no real solutions.